

ANNUAL REPORT 2019



Annual Report on the Implementation of
State Government Energy Conservation

Annual Report on the Implementation of State Government Energy Conservation

December 2019

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South Carolina Office of Regulatory Staff

Energy Office

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ENERGY.SC.GOV 

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Executive Summary

The South Carolina Office of Regulatory Staff – Energy Office (Energy Office) presents this Annual Report on the Implementation of State Government Energy Conservation to the South Carolina General Assembly (General Assembly). The performance period for this report is Fiscal Year 2019 (FY 2019).

Background:

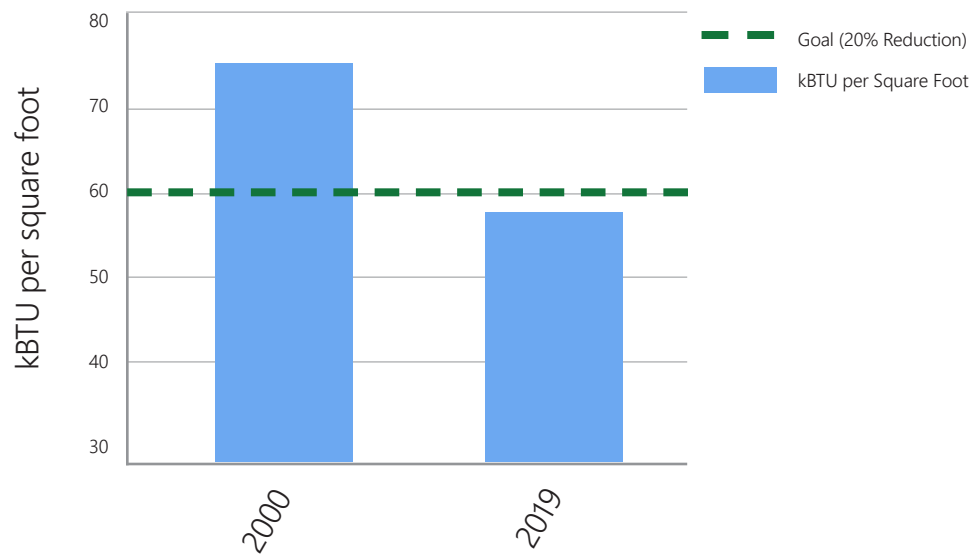
Section 48-52-620 of the South Carolina Code of Laws requires state agencies, public school districts, and public colleges and universities (public entities) to develop energy conservation plans and work to reduce their energy consumption by 20% by 2020, as compared to 2000 levels. The Energy Office is tasked with collecting each public entity's annual report and tracking their progress toward the 20% energy usage reduction goal. To assist the public entities in reaching the goal, the Energy Office provides ongoing training, workshops, and technical assistance, and makes available low-interest loans for energy efficiency projects.

Findings:

Data submitted for FY 2019 indicates that public entities reduced their energy use per square foot by 21%, and energy spending per square foot by 9%. Collectively, public entities have achieved the 20% goal mandated by the General Assembly. (Note: an entity reaching the 20% reduction goal does not preclude their energy use from rising again.)

Public Entities by Type	Average Energy Use per Square Foot (site kBTU)			Average Energy Spending per Square Foot (\$)		
	FY 2000	FY 2019	% change	FY 2000	FY 2019	% change
State Agencies	113	80.93	-28%	\$2.00	\$1.89	-5%
Residential Colleges and Universities	143	114.93	-20%	\$1.95	\$1.80	-8%
Non-Residential Colleges and Universities	80	63.36	-21%	\$1.73	\$1.63	-6%
School Districts	45	36.82	-18%	\$1.26	\$1.14	-10%
Overall	74	58.16	-21%	\$1.52	\$1.38	-9%

Note: These statistics are based on self-reported data submitted by public entities. The Energy Office makes no representation regarding the accuracy of these data.



Overall, the state’s agencies, public school districts, and public colleges and universities have done an excellent job of reducing energy use. As a group, they have achieved the mandated goal. The Energy Office continues to work with individual public entities to help them achieve the mandated goal as well. The Energy Office is looking forward to further savings in Fiscal Year 2020 and will continue to provide assistance in support of South Carolina’s energy conservation goals.

Background

The State Energy Office (Energy Office) was established by the South Carolina Energy Efficiency Act of 1992 to serve as the principal energy planning entity for the state. The mission of the Energy Office is to advance South Carolina's energy strategy and policy through education and outreach. The Energy Office is funded by the US Department of Energy's State Energy Program.

Following the South Carolina Restructuring Act of 2014, the Energy Office is housed within the Office of Regulatory Staff. This reorganization has not altered the legislatively mandated duties of the Energy Office.

Section 48-52-620 of the South Carolina Code of Laws requires affected state agencies, public school districts, and public colleges and universities (public entities) to develop energy conservation plans and work to reduce their energy consumption by 20% by 2020, as compared to 2000 levels. These public entities are required to submit annual energy conservation reports to the Energy Office. The reports consist of data showing energy use and cost per square foot and a narrative that outlines actions taken to implement the public entity's energy conservation plan. It also chronicles progress made in achieving the entity's energy use goals (see Section III for more detail). Section 48-52-620(E) requires the Energy Office to compile this information and report it to the South Carolina General Assembly (General Assembly) by December 31 of each year.

To ensure the development of a fair and equitable methodology for implementing this legislative requirement, the Energy Office established an advisory group in 2008. The group consisted of representatives from a variety of state agencies, school districts, and public colleges and universities – all of which were affected by the new legislative mandate. The composition of this group reflected the diversity of public entities affected by this legislation, both in size and type of institution.

Based on the advisory group's recommendations, the Energy Office offered four energy-plan development workshops around the state. Over 140 individuals participated in these workshops; participants represented 20 state agencies, 49 school districts, and 17 public colleges and universities. After concluding the workshops, Energy Office staff developed a sample energy conservation plan template that was provided to all public entities and remains available on the Energy Office website as a guide.

Activities in Support of Implementation

Section 48-52-620(E) requires the Energy Office to provide the technical assistance necessary for state agencies and school districts to satisfy the requirements of the law. In addition to the energy plan development workshops noted above, the Energy Office has provided the following:

Training

In 2009, the Energy Office and the Association of South Carolina Energy Managers created a state-specific alternative to the national Certified Energy Manager® training: the Accredited Commercial Energy Manager (ACEM) training. The primary purpose of this training is to educate facility and energy managers as they work to reduce energy consumption in support of the legislative requirements. The course teaches participants to identify projects that can reduce their energy consumption and how to calculate their projected energy savings.

Since 2009, a total of 19 ACEM training classes have been held, most recently in October 2019. A total of 335 individuals have received this extensive energy-management training. The pass rate for the course averages approximately 80%, with those passing the test receiving the ACEM certification.

In Fiscal Year 2019 (FY 2019), the Energy Office also offered the Solar Photovoltaic and Thermal Systems Analysis and Design course delivered by the American Society for Heating, Refrigerating and Air-Conditioning Engineers. This one-day workshop provides attendees with the knowledge and skills required for the development, evaluation, procurement, and installation of commercial solar projects.

The Energy Office also offered the two-day Boiler and Steam Systems course, delivered by the Boiler Efficiency Institute. This course teaches students how to recognize and implement cost-saving measures in steam plants.

Assistance to Agencies

The Energy Office works with public entities requesting assistance with energy use reporting requirements and often devotes considerable effort to identifying and correcting reporting errors. The Energy Office invites public entities to report using the mechanism most convenient for them, which can range from elaborate facility and energy management software to a simple Excel format reporting spreadsheet developed by the Energy Office. To improve tracking and reporting, assistance is available to help public entities import their data into Portfolio Manager, a free online tool offered by the United States Environmental Protection Agency. The program not only helps with long-term benchmarking but also allows users to apply for ENERGY STAR® designations for individual buildings.

In addition, the Energy Office – through its Energy Technical Assistance Program – provides free energy assessments for facilities owned by state and local government as well as other entities. These walk-through assessments help to identify cost-effective energy conservation measures and set priorities for action. More information on Energy Technical Assistance may be found at www.ENERGY.SC.GOV/Public.

ConserFund

Funding assistance for energy efficiency improvements is available through the ConserFund low-interest loan program. Loans are available to state agencies, public colleges and universities, school districts, local governments, and private non-profit organizations. Loans have a fixed annual interest rate currently set at 1.5%, and the program is structured so that the cost savings resulting from the energy efficiency upgrades can be used to repay the loan. More information on ConserFund may be found at www.ENERGY.SC.GOV/Incentives/Conserfund.

ConserFund Plus is a variation of the standard ConserFund loan, offering funding as a 70% loan and a 30% grant, and is only available to state agencies, public colleges and universities, and public K-12 schools. Due to the popularity of the program, as of August 2019, all available funds have been disbursed, so these funds are temporarily unavailable. However, these funds will become available again as loans are repaid.



Milestone Recognition Awards

The Energy Office provides tangible recognition for those public entities that have met their mandated 20% reduction in energy intensity since the year 2000.



Charleston School District



Saluda School District



Spartanburg School District 1

For FY 2019, 63 public entities are recognized for achieving the 20% energy intensity reduction goal and are eligible to receive an Energy Reduction Milestone Achievement Award offered by the Energy Office (Note that recognition does not ensure that an agency's energy use has not since risen or may not rise in the future.)

Allendale School District		Pickens School District
Anderson School District 2		Piedmont Technical College
Anderson School District 5		Rock Hill Schools
Barnwell School District 45		Saluda School District
Beaufort School District		SC Department of Disabilities & Special Needs
Charleston School District		SC Department of Health & Environmental Control
Clarendon School District 1		SC Department of Juvenile Justice
Clemson University		SC Department of Labor, Licensing & Regulation - Division of Fire and Life Safety
College of Charleston		SC Department of Mental Health
Colleton School District		SC Department of Natural Resources
Florence School District 5		SC Department of Parks, Recreation & Tourism
Fort Mill School District		SC Department of Public Safety
Georgetown School District		SC Department of Transportation
Greenville School District		SC Forestry Commission
Greenville Technical College		SC Law Enforcement Division
Greenwood School District 50		SC Military Department
Greenwood School District 51		SC State University
Greenwood School District 52		Spartanburg Community College
Hampton School District 1		Spartanburg School District 1
Horry School District		Spartanburg School District 4
John de la Howe School		Spartanburg School District 5
Kershaw School District		Spartanburg School District 7
Lancaster School District		Sumter School District
Laurens School District 55		Trident Technical College
Laurens School District 56		Tri-County Technical College
Lee School District		University of SC - Aiken
Lexington-Richland School District 5		University of SC - Sumter
Northeastern Technical College		Williamsburg School District
Old Exchange Building Commission		Williamsburg Technical College
Orangeburg School District 3		Williston School District 29
Orangeburg School District 4		Winthrop University
Patriots Point Development Authority		

Forty entities have been recognized previously for achieving the 20% energy intensity reduction goal in one or more years during FY 2001 – FY 2018 performance periods but have not met the threshold for FY 2019.

Aiken School District	Orangeburg School District 5
Aiken Technical College	Orangeburg-Calhoun Technical College
Anderson School District 3	Palmetto Railways
Bamberg School District 1	Richland School District 1
Berkeley School District	SC Department of Administration, Division of Facilities Management and Property Services
Chesterfield School District	SC Department of Agriculture
Clarendon School District 3	SC Department of Corrections
Coastal Carolina University	SC Department of Employment & Workforce
Darlington School District	SC Educational Television
Denmark Technical College	SC Sea Grant Consortium
Dorchester School District 2	SC Vocational Rehabilitation Department
Dorchester School District 4	Spartanburg School District 3
Edgefield School District	Spartanburg School District 6
Fairfield School District	The Citadel
Florence School District 2	Union School District
Florence-Darlington Technical College	University of SC - Columbia
Francis Marion University	University of SC - Lancaster
Lander University	University of SC - Union
Medical University of SC	University of SC - Upstate
Newberry School District	York School District 1

Many factors may contribute to an organization's energy use rising again, such as changes in operating hours or construction of new facilities that contain more technological components that consume electricity.

Since the initial performance period of FY 2001, 103 of 147 (70%) of public entities have achieved the 20% energy intensity reduction goal in at least one fiscal year.

Submission of Annual Progress Reports

For FY 2019, public entities were required to complete the following five sections of the report:

Section 1: Energy Conservation Measures

This section requires an inventory of energy conservation measures implemented during the year, including any measured or projected energy savings.

Section 2: Energy Consumption Data

In this section, overall energy consumption data is reported, either through a web-based reporting tool or a spreadsheet provided by the Energy Office.

Section 3: Purchase of Energy Conservation Products

This section requests a confirmation that all purchased energy conservation products have been certified and/or approved by the Energy Office, as per § 48-52-640.

Section 4: Additional Questions

This section solicits information about organizations' interest in obtaining technical assistance from the Energy Office or in receiving the Energy Connection newsletter. Additional information is requested on any installed photovoltaic systems.

Section 5: Energy Plan Update and Success Stories

This section requests that organizations send a current copy of their energy conservation plans to the Energy Office if they have made significant changes since 2009. If no major revisions occurred, agencies are asked to provide an update on progress toward achieving the goals outlined in their plans, including both successes and barriers faced.

Of the 147 public entities, 136 (93%) submitted complete reports. Eight (5%) did not submit a report. The remaining three (2%) submitted incomplete reports.

Public Entities by Type¹	Total Number of Public entities	Complete	% Complete	Partially Complete	% Partially Complete	Non- Submitting	% Non- Submitting
State Agencies	33	29	88%	2	6%	2	6%
Residential Colleges and Universities ²	12	12	100%	0	0%	0	0%
Non-Residential Colleges and Universities	21	20	95%	0	0%	1	5%
School Districts	81	75	93%	1	1%	5	6%
Totals	147	136	93%	3	2%	8	5%

A list of non-submitting entities is included in Appendix A. Energy Office staff continues to provide assistance to public entities upon request.

A sample of completed Annual Progress Reports is provided in Appendix B. These reports are included to illustrate the range of energy conservation and efficiency activities used by many public entities. This appendix includes a sampling of complete reports and is not intended to imply Energy Office endorsement of the reports included in the sampling over those not included.

¹ For reporting purposes, public entities were separated into peer groups that most closely mirrored their energy consumption and energy expenditure levels. These group types are as follows: state agencies, residential colleges and universities, non-residential colleges and universities, and school districts.

² The Medical University of South Carolina is included in the Residential Colleges and Universities organization type for this report as its energy consumption levels are most similar to this peer group.

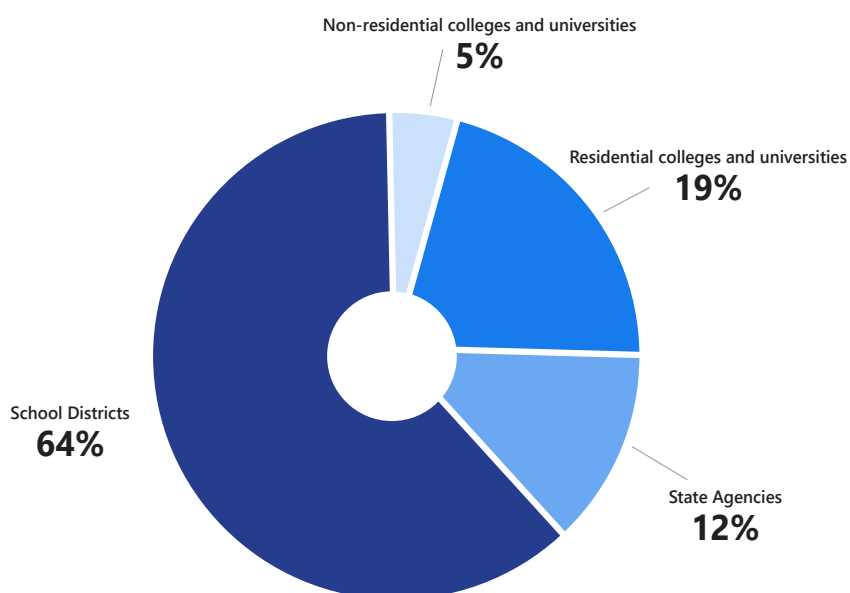
Progress toward Energy Conservation Goals

The General Assembly requires public entities to work toward meeting specific goals in reducing their energy intensity (defined as total site energy consumption measured in BTUs per gross square foot). The Energy Office has collected data on energy consumption, energy spending, and building square footage from public entities on an annual basis for more than 20 years. This data can be used as a basis for estimating the progress made by public entities toward meeting required energy goals. However, this data is accepted as received, and the Energy Office can make no representation regarding accuracy. In addition, some entities did not submit reports to the Energy Office, which introduces a potential source of bias. Additional inconsistencies have been introduced because the 2008 legislation exempted buildings constructed under the Energy Independence and Sustainable Construction Act of 2007 as well as buildings not in existence in both 2000 and 2008. However, many agencies and schools simply report on all of their buildings, and certainly plan for all of their buildings, so the data collected may include energy intensity in buildings that should be excluded from the 20% reduction goal. Consequently, the statistics reported in this section should be interpreted with caution.

For the purpose of reporting trends, public entities were separated into peer groups that most closely mirrored their energy consumption and energy expenditure levels. These group types are as follows: state agencies, residential colleges and universities, non-residential colleges and universities, and school districts. The Medical University of South Carolina is included in the residential colleges and universities organization type for this report as its energy consumption levels are most similar to this peer group. Individual reports for each reporting entity are available upon request.

In FY 2019, school districts accounted for the largest share of square footage by type of public entity (64%). The next largest category (19%) was residential colleges and universities. State agencies (12%) and non-residential colleges and universities (5%) accounted for the smallest categories of reporting entities.

Square Footage by Public Entity Type *FY 2019*



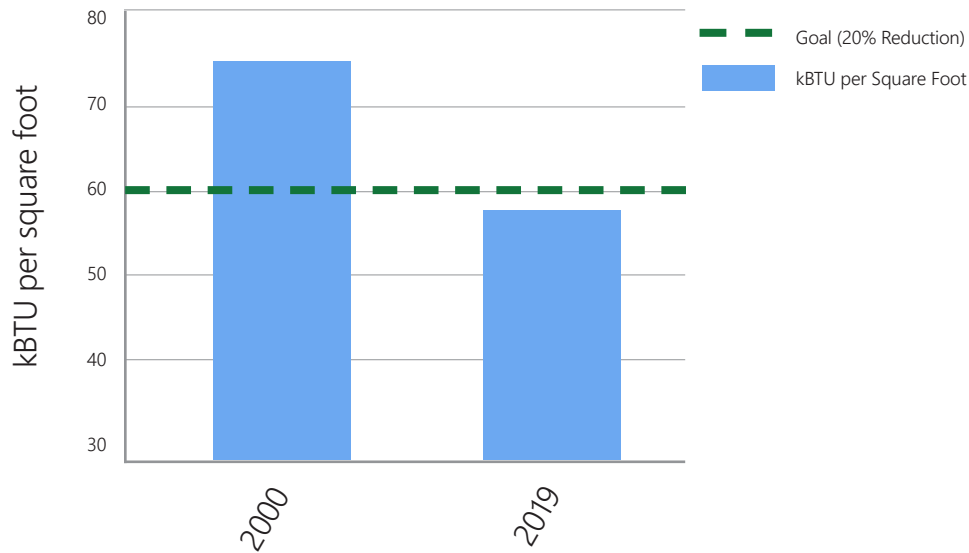
Data submitted for FY 2019 indicates that public entities reduced their energy use intensity by 21% compared to the FY 2000 baseline. School districts – the least energy-intensive category of public entities – reported improvements of 18%. Residential colleges – the most energy-intensive category – reported improvements of 20%.

Public entities reduced their energy spending per square foot by 9% from 2000 levels (adjusted for inflation). This differential indicates that the reporting public entities' efforts to control energy use are paying off. Without those efforts, rising energy costs are likely to have a significant effect on agency budgets.

Public entities by Type	Average Energy Use per Square Foot (site kBTU)			Average Energy Spending per Square Foot (\$)		
	FY 2000	FY 2019	% change	FY 2000 ³	FY 2019	% change
State Agencies	113	80.93	-28%	\$2.00	\$1.89	-5%
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Overall	74	58.16	-21%	\$1.52	\$1.38	-9%

Note: These statistics are based on self-reported data submitted by public entities. The Energy Office makes no representation regarding the accuracy of these data.

³ These figures have been adjusted for inflation using the Bureau of Labor Statistics' CPI Inflation Calculator (available at <https://data.bls.gov/cgi-bin/cpicalc.pl>). Therefore, figures here are presented in 2019 dollars.



In aggregate, public entities have reported significant improvements in energy intensity compared to the FY 2000 baseline. As noted in the table below, overall energy intensity has decreased from 75 kBTU per square foot to 58 kBTU per square foot. The 20% reduction goal of 60 kBTU per square foot has been exceeded.

Public entities Energy Usage	
Year	kBTU per ft ²
2000	75
2019	58

Note: These statistics are based on data submitted by public entities. The Energy Office makes no representation regarding the accuracy of these data.

Based on information submitted to the Energy Office, public entities have collectively achieved the 20% goal set by the General Assembly. Energy savings are being realized, and fiscal year 2020 will provide an opportunity for public entities to continue to reduce their energy consumption. The Energy Office is only able to report on the data submitted by public entities. Partially complete or missing data also affect the savings metrics and can lead to difficulty in year-by-year comparisons of energy use.

Conclusion

The Energy Office continues to provide training, technical assistance, and funding to public entities in support of their efforts to achieve energy conservation goals. In addition, the Energy Office has identified agencies that appear to be having difficulty meeting the goals and is prepared to conduct energy audits at their facilities, upon request. Overall, the state's agencies and public schools have done an excellent job of reducing energy use. As a group, they have achieved the mandated goal. The Energy Office continues to work with individual agencies to help them achieve the mandated goal as well. The Energy Office is looking forward to further savings in fiscal year 2020 and will continue to provide assistance in support of South Carolina's energy conservation goals.



APPENDIX A:

Non-Reporting Public Entities

At the time this annual report was written, the following public entities had not submitted a report for FY 2019:

Anderson School District 1

Clarendon School District 3

Darlington School District

Denmark Technical College

Florence School District 4

Governor's School for Arts & Humanities

Hampton School District 2

SC Department of Corrections

APPENDIX B:

Sample Progress Reports

Disclaimer: The reports in this section are re-printed as submitted to the Energy Office by the reporting entities and are meant to illustrate the programs undertaken in FY 2019. Errors contained in this section are not the responsibility of the Energy Office and the reports have not been altered or corrected.

FY19 Annual Progress Report

To be submitted to the Office of Regulatory Staff, Energy Office
State Government Energy Conservation Act, Code of Laws of South Carolina

Organization Name:

The Old Exchange Building

Person(s) Filing Report (name, phone number, email):

Tony Youmans, Nancy Madden

Please complete this report and return it to Rick Campana at the Office of Regulatory Staff, Energy Office (rcampana@ors.sc.gov) no later than September 13, 2019. Completion of Section II requires the submission of energy consumption data, as described below. You may use the attached reporting tool or the format you normally use to track your energy use.

This report will allow the Energy Office to verify your compliance with the State Government Energy Conservation Act (§48-52-610 through 680 and §48-52-910, Code of Laws of South Carolina). In addition, the energy consumption data you provide will be made available to assist in statewide energy planning efforts. Please ensure that your submission is as complete and accurate as possible. If you need additional space, please attach pages or documents as necessary. If you have questions, please contact Rick Campana at 803-737-5229 or rcampana@ors.sc.gov.

Section I: Energy Conservation Measures

§48-52-820 requires entities to report activities undertaken to implement their Energy Conservation Plan. For this section, please list each energy conservation measure that you implemented in FY19. For each measure, please include the following:

1. A description of the energy conservation measure implemented including an estimate of square footage affected.
2. The estimated and/or observed annual energy savings (if available) and estimation method (if applicable.).

If you implemented no energy conservation measures in FY19, simply write "None."

In February 2019, staff completed transitioning all chandeliers, sconces and ceiling fixtures to LED light bulbs in the South Carolina State Room and the Rebecca Motte Chapter NSDAR Room. This space encompasses approximately 2000 square feet of exhibit space on the Exchange Floor level.

FY19 Annual Progress Report

To be submitted to the Office of Regulatory Staff, Energy Office
State Government Energy Conservation Act, Code of Laws of South Carolina

Section II: Energy Consumption Data

To verify progress made toward state energy conservation goals and to assist in statewide energy planning efforts, please provide your complete energy consumption data for FY19 (including all sources of energy used in your buildings) in a format described below:

- *If you use energy accounting software, please submit a file containing data showing energy consumption, energy cost, and gross square footage in FY19:*
 - *As totals for your organization*
 - *If available, for each meter and/or each building in your organization*
- *If you do not currently use any energy accounting software:*
 - *You may want to consider using Portfolio Manager, the free, web-based energy accounting system provided by ENERGY STAR. To access Portfolio Manager, please click [here](#). If you would like more assistance with entering your data into Portfolio Manager, please email rcampana@ors.sc.gov.*
 - *You may choose to complete and submit the file entitled "SCEO Consumption Reporting Tool", which can be downloaded from our website (please click [here](#)).*
 - *Otherwise please submit data using Excel.*

Section III: Purchase of Energy Conservation Products

§48-52-640 mandates that all state agencies "shall submit a disclaimer statement to the State Energy Office with [their] annual report stating that [they] did not purchase an energy conservation product that had not been certified by the State Energy Office." The Energy Office has posted a list of pre-certified and/or approved energy conservation products/measures on our website (please click [here](#)). For any products/measures not listed here, agencies should contact Rick Campana at rcampana@ors.sc.gov or by telephone at 803-737-5229.

Statement	Initials
I hereby certify that my organization did not purchase any energy conservation products that have not been certified and/or approved by the Energy Office.	TY

FY19 Annual Progress Report

To be submitted to the Office of Regulatory Staff, Energy Office
State Government Energy Conservation Act, Code of Laws of South Carolina

Section IV: Additional Questions

Your answers to these questions help the Energy Office tailor outreach and activities to address the needs of your organizations, thank you for your feedback!

- Are you interested in a free walk-through energy assessment performed by a member of the Energy Office's Technical Assistance team? ☒ Y or ☐ N
- If you would like to subscribe to the South Carolina Energy Office newsletter [The Energy Connection](#) please write the preferred e-mail: youmanst@charleston-sc.gov
- If any of your facilities have solar panels used to generate energy for the facility or to put back on the grid, please provide the name of the facility, kW (AC) capacity, and the interconnected utility.
 - Name of the facility _____
 - Capacity (kWAC) _____
 - Interconnected utility _____

Section V: Energy Plan Update & Success Stories

Energy Plan Updates

- A. You submitted an Energy Conservation Plan, required by law, to the Energy Office in 2009; if you have significantly revised your Plan please send a copy for our files to rcampana@ors.sc.gov.
- B. If you have not made significant revisions to your Plan, but have only refined it, please provide a brief write-up addressing any changes that may have occurred since submission of your Plan in 2009. Please include energy team training and education. In addition, please let us know about any successes deserving mention, or barriers to improvement that you have faced. We want to publicize your successes and assist with obstacles where we can.

Staff has not made any changes or revisions to the energy plan.

- C. Please provide the contact (name, phone, email) for your Plan:

Tony Youmans, 843-727-2165, youmanst@charleston-sc.gov

FY19 Annual Progress Report

To be submitted to the Office of Regulatory Staff, Energy Office
State Government Energy Conservation Act, Code of Laws of South Carolina

Organization Name:

SC State University

Person(s) Filing Report (name, phone number, email):

Ken Davis

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1. A description of the energy conservation measure implemented including an estimate of square footage affected.
2. The estimated and/or observed annual energy savings (if available) and estimation method (if applicable.).

If you implemented no energy conservation measures in FY19, simply write "None."

LED lighting up-fits in Whittaker Library and Belcher Hall as well as some exterior lighting. Our standard practice now is when a lamp/ballast replacement is required it is up-fitted to LED. Replaced chiller at Donma Admin with a more energy efficient system EER rating 20.

FY19 Annual Progress Report

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§48-52-640 mandates that all state agencies "shall submit a disclaimer statement to the State Energy Office with [their] annual report stating that [they] did not purchase an energy conservation product that had not been certified by the State Energy Office." The Energy Office has posted a list of pre-certified and/or approved energy conservation products/measures on our website (please click [here](#)). For any products/measures not listed here, agencies should contact Rick Campana at rcampana@ors.sc.gov or by telephone at 803-737-5229.

Statement	Initials
I hereby certify that my organization did not purchase any energy conservation products that have not been certified and/or approved by the Energy Office.	KD

FY19 Annual Progress Report

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- If you would like to subscribe to the South Carolina Energy Office newsletter [The Energy Connection](#) please write the preferred e-mail: pplatt1@scsu.edu
- If any of your facilities have solar panels used to generate energy for the facility or to put back on the grid, please provide the name of the facility, kW (AC) capacity, and the interconnected utility.
 - Name of the facility NA
 - Capacity (kWAC) NA
 - Interconnected utility NA

Section V: Energy Plan Update & Success Stories

Energy Plan Updates

- A. You submitted an Energy Conservation Plan, required by law, to the Energy Office in 2009; if you have significantly revised your Plan please send a copy for our files to rcampana@ors.sc.gov.
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Paul Platt, CEM completed continuing ed courses

- C. Please provide the contact (name, phone, email) for your Plan:

Paul Platt, 803 614-5929, pplatt1@scsu.edu

FY19 Annual Progress Report

To be submitted to the Office of Regulatory Staff, Energy Office
State Government Energy Conservation Act, Code of Laws of South Carolina

Organization Name:

Greenville Technical College

Person(s) Filing Report (name, phone number, email):

Ted Westervelt, 864-250-8955, ted.westervelt@gvltec.edu

Please complete this report and return it to Rick Campana at the Office of Regulatory Staff, Energy Office (rcampana@ors.sc.gov) no later than September 13, 2019. Completion of Section II requires the submission of energy consumption data, as described below. You may use the attached reporting tool or the format you normally use to track your energy use.

This report will allow the Energy Office to verify your compliance with the State Government Energy Conservation Act (§48-52-610 through 680 and §48-52-910, Code of Laws of South Carolina). In addition, the energy consumption data you provide will be made available to assist in statewide energy planning efforts. Please ensure that your submission is as complete and accurate as possible. If you need additional space, please attach pages or documents as necessary. If you have questions, please contact Rick Campana at 803-737-5229 or rcampana@ors.sc.gov.

Section I: Energy Conservation Measures

§48-52-820 requires entities to report activities undertaken to implement their Energy Conservation Plan. For this section, please list each energy conservation measure that you implemented in FY19. For each measure, please include the following:

1. A description of the energy conservation measure implemented including an estimate of square footage affected.
2. The estimated and/or observed annual energy savings (if available) and estimation method (if applicable.).

If you implemented no energy conservation measures in FY19, simply write "None."

1. Ongoing Conservation Efforts:

As lighting, IT, and HVAC equipment fails or is renewed it is replaced with LED, Energy Star rated or High-efficiency equipment. High-efficiency condensing boilers were installed in two buildings (60,00 sq ft each) on the Barton Campus. A decrease in energy usage was observed in both of those buildings. HVAC system schedules are adjusted weekly. Use of college wide R-25 scheduling software has improved accuracy of facility usage information and efforts will continue in this area to insure that building systems only run when needed. All collected waste is sorted for recyclable materials; paper collection bins are located in office areas, cardboard is collected and bailed. Waste metal products, electrical/electronic items, and used cooking oil are collected as well.

2. Annual Energy Savings:

There was a 6.4% decrease in energy intensity in FY 19 as compared to FY 18, down from 62.6 kBtu/sq ft in FY 18 to 58.8 kBtu/sq ft in FY 19, reversing the 2% increase in energy intensity observed in FY18 as compared to FY 17.

FY19 Annual Progress Report

To be submitted to the Office of Regulatory Staff, Energy Office
State Government Energy Conservation Act, Code of Laws of South Carolina

Section II: Energy Consumption Data

To verify progress made toward state energy conservation goals and to assist in statewide energy planning efforts, please provide your complete energy consumption data for FY19 (including all sources of energy used in your buildings) in a format described below:

- *If you use energy accounting software, please submit a file containing data showing energy consumption, energy cost, and gross square footage in FY19:*
 - *As totals for your organization*
 - *If available, for each meter and/or each building in your organization*
- *If you do not currently use any energy accounting software:*
 - *You may want to consider using Portfolio Manager, the free, web-based energy accounting system provided by ENERGY STAR. To access Portfolio Manager, please click [here](#). If you would like more assistance with entering your data into Portfolio Manager, please email rcampana@ors.sc.gov.*
 - *You may choose to complete and submit the file entitled "SCEO Consumption Reporting Tool", which can be downloaded from our website (please click [here](#)).*
 - *Otherwise please submit data using Excel.*

Section III: Purchase of Energy Conservation Products

§48-52-640 mandates that all state agencies "shall submit a disclaimer statement to the State Energy Office with [their] annual report stating that [they] did not purchase an energy conservation product that had not been certified by the State Energy Office." The Energy Office has posted a list of pre-certified and/or approved energy conservation products/measures on our website (please click [here](#)). For any products/measures not listed here, agencies should contact Rick Campana at rcampana@ors.sc.gov or by telephone at 803-737-5229.

Statement	Initials
I hereby certify that my organization did not purchase any energy conservation products that have not been certified and/or approved by the Energy Office.	TRW

FY19 Annual Progress Report

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State Government Energy Conservation Act, Code of Laws of South Carolina

Section IV: Additional Questions

Your answers to these questions help the Energy Office tailor outreach and activities to address the needs of your organizations, thank you for your feedback!

- Are you interested in a free walk-through energy assessment performed by a member of the Energy Office's Technical Assistance team? ☐ Y or ☒ N
- If you would like to subscribe to the South Carolina Energy Office newsletter [The Energy Connection](#) please write the preferred e-mail: ted.westervelt@gvltec.edu
- If any of your facilities have solar panels used to generate energy for the facility or to put back on the grid, please provide the name of the facility, kW (AC) capacity, and the interconnected utility.
 - Name of the facility _____
 - Capacity (kWAC) _____
 - Interconnected utility _____

Section V: Energy Plan Update & Success Stories

Energy Plan Updates

- A. You submitted an Energy Conservation Plan, required by law, to the Energy Office in 2009; if you have significantly revised your Plan please send a copy for our files to rcampana@ors.sc.gov.
- B. If you have not made significant revisions to your Plan, but have only refined it, please provide a brief write-up addressing any changes that may have occurred since submission of your Plan in 2009. Please include energy team training and education. In addition, please let us know about any successes deserving mention, or barriers to improvement that you have faced. We want to publicize your successes and assist with obstacles where we can.

Members of the energy team attended vendor, ASCEM, and ASHREA sponsored training sessions in FY 2019.

- C. Please provide the contact (name, phone, email) for your Plan:

Ted Westervelt, 864-250-8955, ted.westervelt@gvltec.edu

FY19 Annual Progress Report

To be submitted to the Office of Regulatory Staff, Energy Office
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Organization Name:

Greenwood School District 50

Person(s) Filing Report (name, phone number, email):

Angela Williams, 864-941-5775, williamsa@gwd50.org

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We changed 5 HVAC units at the Greenwood School District 50 office. We also changed the lights in the kitchens to LED lights at Hodges Elementary, Springfield Elementary, and Emerald High School.

FY19 Annual Progress Report

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Section II: Energy Consumption Data

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Statement	Initials
I hereby certify that my organization did not purchase any energy conservation products that have not been certified and/or approved by the Energy Office.	ASW

FY19 Annual Progress Report

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- If you would like to subscribe to the South Carolina Energy Office newsletter The Energy Connection please write the preferred e-mail: _____
- If any of your facilities have solar panels used to generate energy for the facility or to put back on the grid, please provide the name of the facility, kW (AC) capacity, and the interconnected utility.
 - Name of the facility NA
 - Capacity (kWAC) NA
 - Interconnected utility NA

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Maintenance Director Scott Duncan has completed BOC certification

- C. Please provide the contact (name, phone, email) for your Plan:

Scott Duncan, 864-941-5775, duncans@gwd50.org

Revised 7/22/2019

ENERGY.SC.GOV

Office of Regulatory Staff

1401 Main Street

Suite 900

Columbia, SC 29201

